

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
28 April 2005 (28.04.2005)

PCT

(10) International Publication Number
WO 2005/037228 A2

(51) International Patent Classification⁷: **A61K**
(21) International Application Number:
PCT/US2004/034386

(22) International Filing Date: 18 October 2004 (18.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/511,683 17 October 2003 (17.10.2003) US

(71) Applicant (for all designated States except US): **INTEGRIGEN, INC.** [US/US]; 42 Digital Drive, Unit 6, Novato, CA 94949 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SMIDER, Vaughn** [US/US]; 3517 McSherry Way, Alameda, CA 94502 (US).
HERIOT, William [US/US]; 364 Sunset Parkway, Novato, CA 94949 (US).

(74) Agents: **JENKINS, Kenneth, E.** et al.; Townsend and Townsend and Crew, LLP, 12730 High Bluff Drive, Suite 400, San Diego, CA 92130 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

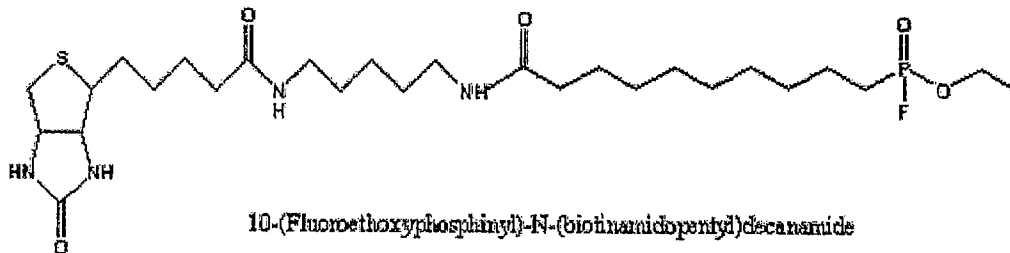
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: HALOGEN PHOSPHONATE MONOESTERS



(57) Abstract: The present invention relates to detection, immobilization, and production of proteolytic antibodies using halogen phosphonate monoester probes, immobilizing reagents, and antigen conjugates.